

ABSTRACT OF THE DISCLOSURE

Devices and methods for performing intravascular procedures without cardiac bypass include embodiments of temporary filter devices, temporary valves, and
5 prosthetic valves. The temporary filter devices have a cannula which provides access for surgical tools for effecting repair of cardiac valves. The cannula may have filters which prevent embolitic material from entering
the coronary arteries and aorta. The valve devices may
10 also have a cannula for insertion of the valve into the aorta. The valve devices expand in the aorta to occupy the entire flow path of the vessel and operate to prevent blood flow and to permit flow through the valve. The prosthetic valves include valve fixation devices
15 which secure the prosthetic valve to the wall of the vessel. The prosthetic valves are introduced into the vascular system in a compressed state, advanced to the site of implantation, and expanded and secured to the vessel wall.